

## UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							DATE February 2000																																														
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603802A Weapons and Munitions - Advanced Development</b>																																																	
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost																																												
Total Program Element (PE) Cost	0	4681	28679	10148	8844	0	0	0	52352																																												
D066 Shoulder-Launched Multipurpose Assault Weapon	0	2943	0	0	0	0	0	0	2943																																												
DAS2 Small Arms Improvement	0	1738	2793	1424	1040	0	0	0	6995																																												
DAS3 Objective Individual Combat Weapon	0	0	25886	1985	0	0	0	0	27871																																												
DAS4 Mortar Systems	0	0	0	6739	7804	0	0	0	14543																																												
<p><b>A. Mission Description and Justification:</b> This project element addresses the modernization of existing Small Arms Weapon systems. This program provides funds to develop existing and emerging technology to enhance lethality, target acquisition, fire control, training effectiveness and reliability for small arms weapon systems and munitions. It also supports development of the Objective Individual Combat Weapon (OICW) which represents the next generation individual soldier's weapon and provides the soldier with significant increases in individual weapon performance. In addition, it supports development of the Shoulder-Launched Multipurpose Assault Weapon in FY01 and the Mortar Systems in FY02 and FY03.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><b>B. Program Change Summary</b></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget (<u>FY 2000/2001</u> PB)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1751</td> <td style="text-align: center;">2810</td> </tr> <tr> <td>Appropriated Value</td> <td></td> <td style="text-align: center;">4751</td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> </tr> <tr> <td>a. Congressional General Reductions</td> <td></td> <td></td> <td></td> </tr> <tr> <td>b. SBIR / STTR</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c. Omnibus or Other Above Threshold Reductions</td> <td></td> <td style="text-align: center;">-19</td> <td></td> </tr> <tr> <td>d. Below Threshold Reprogramming</td> <td></td> <td></td> <td></td> </tr> <tr> <td>e. Rescissions</td> <td></td> <td style="text-align: center;">-51</td> <td></td> </tr> <tr> <td>Adjustments to Budget Years Since <u>FY 2000/2001</u> PB</td> <td></td> <td></td> <td style="text-align: center;">+25869</td> </tr> <tr> <td>Current Budget Submit (<u>FY 2001</u> PB)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">4681</td> <td style="text-align: center;">28679</td> </tr> </tbody> </table> <p>Change Summary Explanation: FY01 Funding - Funds were realigned from PE 064802A/D134 to PE 063802A/DAS3 to conduct PDRR efforts (+25886).</p>										<b>B. Program Change Summary</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	Previous President's Budget ( <u>FY 2000/2001</u> PB)	0	1751	2810	Appropriated Value		4751		Adjustments to Appropriated Value				a. Congressional General Reductions				b. SBIR / STTR				c. Omnibus or Other Above Threshold Reductions		-19		d. Below Threshold Reprogramming				e. Rescissions		-51		Adjustments to Budget Years Since <u>FY 2000/2001</u> PB			+25869	Current Budget Submit ( <u>FY 2001</u> PB)	0	4681	28679
<b>B. Program Change Summary</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>																																																		
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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE <b>February 2000</b>		
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603802A Weapons and Munitions - Advanced Development</b>				PROJECT <b>D066</b>	
COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D066 Shoulder-Launched Multipurpose Assault Weapon	0	2943	0	0	0	0	0	0	2943
<p><b>A. <u>Mission Description and Budget Item Justification:</u></b> The Bunker Defeat Munition (BDM) Shoulder-launched Multipurpose Assault Weapon – Disposable (SMAW-D) is being acquired to meet an urgent FORSCOM requirement to fill the “Bunker Buster” void in the Army inventory. The system is effective against various targets including earth and timber bunkers, masonry walls and light armored vehicles at ranges of 15-500 meters. Currently, the system cannot be fired from enclosed spaces. This effort will be to determine the feasibility of adapting the SMAW-CS (Confined Space) propulsion concept developed by Talley Defense Systems, Mesa, AZ, for the U.S. Marine Corps to the SMAW-D. The USMC program has been continually funded since FY 1997.</p> <p><b>FY 1999 Accomplishments:</b> Project not funded in FY 1999.</p> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 375 Conduct feasibility study adapting SMAW-CS to BDM CS</li> <li>• 218 Initiate engineering analysis and support</li> <li>• 175 Component testing and evaluation</li> <li>• 50 Conduct modeling and simulation</li> <li>• 500 Fabricate prototypes</li> <li>• 671 Continue feasibility study</li> <li>• 150 Conduct limited test and evaluation</li> <li>• 725 Continue to provide engineering support and analysis</li> <li>• 79 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)</li> </ul> <p>Total 2943</p> <p><b>FY 2001 Planned Program:</b> Project not funded in FY01.</p> <p><b>B. Other Program Funding Source:</b> Not applicable.</p> <p><b>C. <u>Acquisition Strategy:</u></b> The BDM SMAW-D was Type Classified Limited Procurement in 4QFY94 and was Full Materiel Released in 1QFY00. A sole source Firm Fixed Price contract will be awarded to the contractor to conduct a feasibility study to adapt USMC Confined Space technology to the BDM resulting in a product improved version which would be able to be fired from enclosed spaces. Additional funding would be required to qualify the system and provide for Type Classification.</p>									
Project D066		Page 2 of 13 Pages				Exhibit R-2A (PE 0603802A)			

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<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)</b>							DATE <b>February 2000</b>				
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603802A Weapons and Munitions - Advanced Development</b>				PROJECT <b>D066</b>			
<b>D. Schedule Profile</b>				<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>
Initiate BDM CS Study					2Q						
Conclude Feasibility Study						4Q					
Project D066				Page 3 of 13 Pages				Exhibit R-2A (PE 0603802A)			

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## ARMY RDT&amp;E COST ANALYSIS (R-3)

DATE  
February 2000BUDGET ACTIVITY  
**4 - Demonstration and Validation**PE NUMBER AND TITLE  
**0603802A Weapons and Munitions - Advanced  
Development**PROJECT  
**D066**

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Concept Study	FFP	Talley Defense Systems	0	2000	Mar00	0		0	2000	
Subtotal Product Development:				2000					2000	

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Engineering Support		ARDEC	0	743	Feb00	0		0	743	
Subtotal Support Costs:				743					743	

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Test Support		TECOM	0	200	Feb00	0		0	200	
Subtotal Test and Evaluation:				200					200	

IV. Management Services: Not applicable.

Total Project Cost:				2943					2943	
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Project D066

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Exhibit R-3 (PE 0603802A)

## UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE <b>February 2000</b>		
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603802A Weapons and Munitions - Advanced Development</b>				PROJECT <b>DAS2</b>	
COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
DAS2 Small Arms Improvement	0	1738	2793	1424	1040	0	0	0	6995
<p><b>A. <u>Mission Description and Budget Item Justification:</u></b> This project element addresses the modernization of existing Small Arms Weapon systems. This program provides funds to develop existing and emerging technology to enhance lethality, target acquisition, fire control, training effectiveness and reliability for small arms weapon systems and munitions. Current small arms include a variety of personal defense weapons (.38 caliber, .45 caliber; 9mm), individual weapons (5.56mm), crew-served weapons (5.56mm-40mm) and related equipment such as fire control, training devices, hand grenades and ammunition. Current efforts focus on improvements to the M249 Squad Automatic Weapon, M16/M4 Rifle, M203 Grenade Launcher, MK19 Grenade Machine Gun and M240B Medium Machine Gun and hand grenades.</p> <p><b>FY 1999 Planned Program:</b> Project not funded in FY 1999</p> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• <b><u>M249 MG Barrel Life Extension Program</u></b></li> <li>• 50 Concept Definition/Market Survey/Concept Evaluation</li> <li>• 50 Requirements Definition and Specification</li> <li>• 150 Feasibility Study</li> <li>• 50 Evaluation of Study</li> <li>• <b><u>M203 Upgrade</u></b></li> <li>• 103 Technical Assessments</li> <li>• 137 Trade-off Analysis</li> <li>• 80 Define Work Packages</li> <li>• 46 Competitive Contractor Selections</li> <li>• <b><u>M249 Low Cost Training Ammo</u></b></li> <li>• 50 Market/Survey/Program Documentation</li> <li>• 50 Procurement Package</li> <li>• 50 Source Selection</li> <li>• 250 Contract Award</li> <li>• 50 Design Prototype</li> <li>• <b><u>M240 Weight Reduction</u></b></li> <li>• 59 Establish Parameters</li> </ul>									
Project DAS2			Page 5 of 13 Pages			Exhibit R-2A (PE 0603802A)			

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<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)</b>		DATE <b>February 2000</b>
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>	PE NUMBER AND TITLE <b>0603802A Weapons and Munitions - Advanced Development</b>	PROJECT <b>DAS2</b>
<p><b>FY 2000 Planned Program: (continued)</b></p> <ul style="list-style-type: none"> <li>• 73 Survey Materials</li> <li>• 136 Award R&amp;D Contract</li> <li>• 77 Trade Off Analysis</li> <li>• <b><u>Family Of Light Weight Hand Grenades</u></b></li> <li>• 75 Prepare Concussion/Mini-Frag Grenades Program Documentation</li> <li>• 25 Conduct Market Survey</li> <li>• 75 Prepare Procurement Package – Concussion/Mini-Frag Grenades Concept Development</li> <li>• 55 Procurement Admin Lead Time (PALT)</li> <li>• 47 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)</li> </ul> <p>Total 1738</p> <p><b>FY 2001 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• <b><u>M203 Upgrade</u></b></li> <li>• 250 Design/Fabricate Hardware (Contract Awards)</li> <li>• 403 Design/Fabricate Hardware</li> <li>• 200 Test and Evaluate Hardware</li> <li>• <b><u>M249 Low Cost Training Ammo</u></b></li> <li>• 40 Develop and Fabricate Prototype</li> <li>• 150 Conduct Proof of Principle Test</li> <li>• 60 Prepare Tech Assessment</li> <li>• 60 Prepare Temp and Acq Strategy</li> <li>• 100 Requirements Review</li> <li>• 150 Prepare Perf Spec/Final Report</li> <li>• 40 Milestone I/II Package</li> <li>• <b><u>M240 Weight Reduction</u></b></li> <li>• 521 Fabricate Prototypes</li> <li>• 99 Test and Evaluate</li> <li>• <b><u>Family Of Light Weight Hand Grenades</u></b></li> <li>• 360 Award Concussion/Mini-Frag Grenades Concept Development Contract</li> <li>• 120 Design and Fabricate Prototype</li> <li>• 190 Proof of Principle Testing</li> </ul>		
Project DAS2	Page 6 of 13 Pages	Exhibit R-2A (PE 0603802A)

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## ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

DATE  
February 2000BUDGET ACTIVITY  
**4 - Demonstration and Validation**PE NUMBER AND TITLE  
**0603802A Weapons and Munitions - Advanced Development**PROJECT  
**DAS2****FY 2001 Planned Program: (continued)**

- 50 Final Report
- Total 2793

<b>B. Other Program Funding Summary</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>
RDTE 0604802A, Project DAS1			410	966	3853	6395	5385	10110	27119

Remarks: Funding here reflects only those programs starting in project DAS2 and continuing into project DAS1. It does not include projects starting in DAS1.

**C. Acquisition Strategy:** Primary strategy is to make technical assessments, trade-off analysis, formulate and refine designs, test and evaluate items, and make determinations as to whether the item should be transitioned into Engineering Development.

<b>D. Schedule Profile</b>	<u>FY 2000</u>	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>
<b><u>M249 MG Barrel Life Extension Program</u></b>						
Concept Definition	1Qtr					
Market Survey	1-2Qtr					
Concept Evaluation	2-3Qtr					
Requirement Definition & Specification	3Qtr					
Feasibility Study	3-4Qtr					
Evaluation of Study (Use of FY2000 c/o)		1Qtr				
<b><u>M203 Upgrade</u></b>						
Technical Assessments	2Qtr					
Trade-off Analysis	2-3Qtr					
Define Work Packages	3Qtr					
Competitive Contractor Selections	4Qtr	1Qtr				
Contract Award (s)		1Qtr				
Design/Fabricate Hardware	4Qtr	1-4Qtr	1Qtr			
Test & Evaluate Hardware		1-4Qtr	1Qtr			
Finalize Prototype			2-3Qtr			
System Demo			4Qtr			
Update EMD Program Plan			3Qtr			
Prepare/Staff IPR Package			4Qtr			

Project DAS2

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Exhibit R-2A (PE 0603802A)

## UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)						DATE
						February 2000
BUDGET ACTIVITY			PE NUMBER AND TITLE			PROJECT
4 - Demonstration and Validation			0603802A Weapons and Munitions - Advanced Development			DAS2
<b>D. Schedule Profile</b>	<u>FY 2000</u>	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>
<b><u>M249 Low Cost Training Ammo</u></b>						
Market Survey/Program Documentation	1Qtr					
Procurement Package	1-2Qtr					
Source Selection	3Qtr					
Contract Award	4Qtr					
Design and Fabricate Prototype		1Qtr				
Testing		2Qtr				
Proof of Principle Demonstration		3-4Qtr				
Final Report		4Qtr				
<b><u>M240 Weight Reduction</u></b>						
Establish Parameters	1-2Qtr					
Survey Materials	2Qtr					
Award Contract	3Qtr					
Trade Off Analysis	3Qtr					
Fabricate Prototypes	4Qtr					
Experimentation/Preliminary Test		1-4Qtr				
Fabricate New Prototypes			2Qtr			
Test			3Qtr			
Rebuild			4Qtr			
Demo/Report			4Qtr			
<b><u>Family Of Light Weight Hand Grenade*</u></b>						
Prepare C/M-F Grenades Program Documentation	1Qtr					
Conduct Market Survey	1Qtr					
Prepare Proc Pkg – C/M-F Grenades Con Dev	2-3Qtr					
Procurement Admin Lead Time (PALT)	3-4Qtr					
Award C/M-F Grenades Concept Dev Contract		1Qtr				
Design and Fabricate Prototype		1-3Qtr				
Proof of Principle Testing		3-4Qtr				
Final Report		4Qtr				
Prepare O/S Grenades Program Documentation			1Qtr			
Conduct Market Survey for O/S Grenades			1Qtr			
Prepare Procurement Package – O/S Concept Dev			2-3Qtr			

Project DAS2

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Exhibit R-2A (PE 0603802A)



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## ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

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February 2000BUDGET ACTIVITY  
**4 - Demonstration and Validation**PE NUMBER AND TITLE  
**0603802A Weapons and Munitions - Advanced  
Development**PROJECT  
**DAS2**

<b>D. Schedule Profile</b>	<u>FY 2000</u>	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>
Procurement Admin Lead Time (PALT)			3-4Qtr			
Award Concept Development Contract for O/S			4Qtr	1Qtr		
O/S Grenade Design and Fabricate Prototype				1-3Qtr		
O/S Grenades Proof of Principle Testing				3-4Qtr		
O/S Grenades Final Report				4Qtr		
<b><u>MK19 Self Destruct Cartridge</u></b>						
Market Survey/Program Documentation				1Qtr		
Procurement Package				1-2Qtr		
Source Selection				3Qtr		
Contract Award				4Qtr		
Design and Fabricate Prototype					1-2Qtr	
Testing					3-4Qtr	
Final Report					4Qtr	

\*C/M-F – Concussion/Mini-Frag Grenades

\*O/S – Obscuration/signaling Grenades

## UNCLASSIFIED

## ARMY RDT&amp;E COST ANALYSIS (R-3)

DATE  
February 2000BUDGET ACTIVITY  
**4 - Demonstration and Validation**PE NUMBER AND TITLE  
**0603802A Weapons and Munitions - Advanced  
Development**PROJECT  
**DAS2**

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Hardware Development	TBD	TBD		500	Multi	885	Multi	835	2220	
Subtotal Product Development:				500		885		835	2220	

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Development Support	MIPR	ARDEC		981	Multi	1333	Multi	1131	3445	
b. ILS Support	MIPR	ACALA		10	Multi	10	Multi	10	30	
Subtotal Support Costs:				991		1343		1141	3475	

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Testing	MIPR	ARDEC/ATC		30	Multi	290	Multi	285	605	
b. SBRR/STRR				47					47	
Subtotal Test and Evaluation:				77		290		285	652	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Program Mgt	ALLOT	OPMSA		140	Multi	235	Multi	171	546	
b. TDY	ALLOT	OPMSA		30	Multi	40	Multi	32	102	
Subtotal Management Services:				170		275		203	648	

Project Total Cost:				1738		2793		2464	6995	
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Project DAS2

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Exhibit R-3 (PE 0603802A)

## UNCLASSIFIED

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BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603802A Weapons and Munitions - Advanced Development</b>				PROJECT <b>DAS3</b>																															
COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost																														
DAS3 Objective Individual Combat Weapon	0	0	25886	1985	0	0	0	0	27871																														
<p><b>A. Mission Description and Budget Item Justification:</b> Objective Individual Combat Weapon (OICW) –The OICW, which represents the next generation individual soldier's weapon, will provide the soldier with significant increases in individual weapon performance. The resulting improvement in overall combat effectiveness will include; hit probability, range, lethality, cost per kill, combat load, man/machine interface, sustainability and logistics. The OICW will replace selected M16 rifles, the M4 series carbine and the rifle mounted M203 40mm grenade launcher; as well as night vision devices and laser range-finders.</p> <p><b>FY 1999 Planned Program:</b> Project not funded in FY 1999</p> <p><b>FY 2000 Planned Program:</b> Project not funded in FY 2000 Note: OICW will enter Advanced Development in FY00; 14701 is being reprogrammed from PE:0604802A D134 to PE: 0603802A DAS3.</p> <p><b>FY 2001 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 13512 Contract – Ammo/Fuze Development</li> <li>• 12374 Contract – Weapon/Fire Control Development</li> </ul> <p>Total 25886</p>																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><b>B. Other Program Funding Summary</b></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;">To <u>Compl</u></th> <th style="text-align: center;">Total <u>Cost</u></th> </tr> </thead> <tbody> <tr> <td>Ammo, E92000 Obj Family of Weapons</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">2431</td> <td style="text-align: center;">2429</td> <td style="text-align: center;">139000</td> <td style="text-align: center;">143860</td> </tr> <tr> <td>RDT&amp;E, PE: 0604802A, D134 OICW</td> <td></td> <td style="text-align: center;">14701</td> <td style="text-align: center;">0</td> <td style="text-align: center;">25513</td> <td style="text-align: center;">22238</td> <td style="text-align: center;">19340</td> <td style="text-align: center;">14999</td> <td style="text-align: center;">1000</td> <td style="text-align: center;">97791</td> </tr> </tbody> </table>										<b>B. Other Program Funding Summary</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>	Ammo, E92000 Obj Family of Weapons						2431	2429	139000	143860	RDT&E, PE: 0604802A, D134 OICW		14701	0	25513	22238	19340	14999	1000	97791
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<p><b>C. Acquisition Strategy:</b> The OICW has been demonstrated in an Advanced Technology Demonstration (ATD) in FY 1999. Based on the results of the ATD and the requirements of the final Operational Requirements Document (ORD) for the OICW system, a decision was made to enter the Program Definition &amp; Risk Reduction (PD&amp;RR) phase rather than Engineering and Manufacturing Development (EMD) in FY00. This PD&amp;RR phase (PE: 0603802A DAS3) will be a simulation based acquisition phase which utilizes modeling and simulation while developing, building and testing only the key high technology necessary to conduct Cost as an Independent Variable (CAIV) trade-offs at Milestone II. This phase will produce a near final design for the OICW, as well as, the simulations which will form the basis of the trainers. The PD&amp;RR phase will continue into FY2002. The EMD phase (PE: 0604802A D134) which begins in FY2002 will complete the final design, development and validation of the training simulators and complete the Developmental, Operational, and Live Fire Tests necessary to reach Milestone III in FY06. The FY2000 funding is currently being realigned to conform with this strategy.</p>																																							
Project DAS3			Page 11 of 13 Pages				Exhibit R-2A (PE 0603802A)																																

## UNCLASSIFIED

## ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

DATE

February 2000

BUDGET ACTIVITY

4 - Demonstration and Validation

PE NUMBER AND TITLE

0603802A Weapons and Munitions - Advanced  
Development

PROJECT

DAS3

<b>D. Schedule Profile</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Contract Preparation		*					
Ammo/Fuze Development		*	1-3 Qtr				
Weapon/Fire Control Development		*	1-3 Qtr				
Quality Design & Build							
Developmental Technical Testing			1-4 Qtr				
Developmental Operational Evaluation			3-4 Qtr	1 Qtr			

\* FY2000 is currently being reprogrammed to Advanced Development PE 0603802A DAS3 from PE 0604802A D134. The advanced development will be executed in FY2000 through the beginning of FY2002.

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## UNCLASSIFIED

## ARMY RDT&amp;E COST ANALYSIS (R-3)

DATE  
February 2000BUDGET ACTIVITY  
**4 - Demonstration and Validation**PE NUMBER AND TITLE  
**0603802A Weapons and Munitions - Advanced Development**PROJECT  
**DAS3**

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
b. Hardware Development	TBD	Contractor TBD		*		18818	TBD	716	19534	19534
Subtotal Product Development:						18818		716	19534	19534

\* FY2000 is currently being reprogrammed to Advanced Development PE 0603802A DAS3 from PE 0604802A D134.

The OICW Advanced Development will be executed in FY2000 through the beginning of FY2002.

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
c. Development Support	MIPR	Multiple		*		2062	Multi		2062	
d. ILS Support	MIPR	Multiple		*		100			100	
c. Training and Sims	MIPR	Multiple		*		2964		200	3164	
Subtotal Support Costs:						5126		200	5326	

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
c. Developmental Technical Testing	MIPR	ATEC				282			282	
d. Developmental Operational Evaluation	MIPR	ATEC				680		270	950	
Subtotal Test and Evaluation:						962		270	1232	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
c. Program Mgt	ALLOT	PMSA		*		960		779	1739	
d. Travel				*		20		20	40	
Subtotal Management Services:						980		799	1779	

Project Total Cost:						25886		1985	27871	
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Project DAS3

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Exhibit R-3 (PE 0603802A)